UNITED STATES THREEMILE BUTTES QUADRANGLE DEPARTMENT OF THE INTERIOR MONTANA-POWDER RIVER CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) GEOLOGICAL SURVEY 4875 III SW (IHOME CREEK BUTTE) 105°52′30″ 106°00′ 45°30′ 12 R. 46 E. R. 47 E. This report has not been edited for conformity with 10 11 12 9 U.S. Geological Survey editorial standards or OVERBURDEN ISOPACH—Showing thickness of over-burden, in feet, from the surface to the top of the coal bed. Overburden isopachs within the stripping limit are 14 13 15 16 18 17 omitted where they are too close to a mining-ratio contour for map readability. Isopach interval 100 feet (30.5 m)BOUNDARY OF COAL 5 FEET OR MORE THICK— Drawn along the outcrop of coal bed and/or the inferred contact between burned and unburned coal, and/or the 5-foot coal isopach, and/or the fault boundary of coal. Arrows point toward area of coal 5 feet or mere thick. 22 24 23 MINING-RATIO CONTOUR—Number indicates cubic 24 20 21 19 yards of overburden per ton of recoverable coal by surface-mining methods. Contours shown only in areas suitable for surface mining within the stripping limit. To convert feet to meters, multiply feet by 0.3048. To convert yds3/ton to m3/metric ton, multiply yds3/ton by 27'30" 27'30" 27 25 29 28 25 30 26 21 19 (PHILLIPS BUTTE) 4874 IV SW SCALE 1:24 000 Base map from U.S. Geological Survey, 1966 MONTANA

COAL RESOURCE OCCURRENCE MAP OF THE THREEMILE BUTTES QUADRANGLE, POWDER RIVER COUNTY, MONTANA

UTM GRID AND 1966 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

BY COLORADO SCHOOL OF MINES RESEARCH INSTITUTE 1979

QUADRANGLE LOCATION

PLATE 8

OVERBURDEN ISOPACH AND MINING-RATIO MAP OF THE LOWER SPLIT OF THE CANYON COAL BED

OPEN FILE REPORT 79-100

PLATE 8 OF 52

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stratigraphic nomenclature.

EXPLANATION

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